

Appendix C

Cargo Truck, Trailer, and Radio Substitution

This manual uses generic descriptors to indicate truck and trailer capacity and radiocapabilities. The following list, based on equipment produced in the former Soviet Union, provides a definition of terms and examples of equipment types in each generic category. However, users may substitute any comparable piece of equipment that falls within the range of capabilities for each system.

Trucks

Type	Drive	Load Capacity	Examples
Truck, Utility	4 x 4	500 to 600 kg	GAZ-69 (RS) UAZ-469 (RS) Land Rover Defender 130 (UK) IMR A-0.75 (SR)
Truck, Light	4 x 4	1 to 2.5 mt	GAZ-66 (RS) GAZ-3301 (RS) TAM 110 T7 BV (SR) Renault TRM 2000 (FR)
Truck, Medium	6 x 6	2.5 to 7 mt	URAL-375D (RS) ZIL-131 (RS) ZIL-157K (RS)
Truck, Heavy	6 x 6	7.5 mt or greater	KrAZ-255B (RS) KrAZ-260 (RS) IVECO Magirus 160-23 ANWM (GM) AWD Bedford TM (UK)

Trailers

Type	Load Capacity	Examples	Towed By
Trailer, Cargo, 1-Axle	0.5 mt	GAZ-704 (RS)	UAZ-3151 (RS)
		UAZ-8109 (RS)	UAZ-469 (RS)
		GKN Defence 750-kg (UK)	
	1.5 mt	TAPZ-755 (RS)	GAZ-66 (RS)
		M104 Series (US)	
Trailer, Cargo, 2-Axle	2.5 to 4.0 mt	GAZ-710 (RS)	ZIL-131 (RS)
		IAPZ-754V (RS)	URAL-375D (RS)
		782V (RS)	URAL-4320 (RS)
	up to 6.8 mt	MAZ-5243 (RS)	MAZ-500 (RS) KrAZ-255B (RS)

Radios

Type	Example	Power Output	Frequency	Range
VHF, Manpack, Low-Power	R-107 (RS)	1 W	20 to 52 MHz	6 to 25 km
VHF, Portable, Low-Power	R-148 (RS)	1.1 to 2.1 W	37 to 51.95 MHz	5 km
VHF, Portable, Very-Low-Power	R-126 (RS)	0.5 W	48.5 to 51 MHz	1 to 4 km
VHF, Vehicle Mount, Medium-Power	R-123 (RS)	20 W	20 to 51.5 MHz	20 to 50-km*
HF, Manpack, Low-Power	R-104M (RS)	1 to 3.5 W	1.5 to 4.25 MHz	20 to 50 km**
HF, Vehicle Mount, Medium-Power	R-130 (RS)	10 to 40 W	1.5 to 10.99 MHz	50 to 75 km***
HF, Vehicle Mount, High-Power	R-118 (RS)	150 to 250 W	1.0 to 7.5 MHz	up to 600 km
Radio Relay, VHF	R-401 (RS) R-403 (RS)	2.5 W	60 to 70 MHz	40 to 50 km
Radio Relay, UHF	R-405 (RS)	2.5 W	320 to 420 MHz	40 to 50 km
Warning Receiver	R-311 (RS)	Not Applicable	1 to 15 MHz	Not Applicable

FOOTNOTES:

- * Range is 20 km while on the move; 50 km while stationary with telescoping antenna.
- ** Range is 20 to 30 km with whip antenna; 30 to 50 km with long wire antenna.
- *** Range is 50 km with whip 4-meter antenna; 75 km with 10-meter whip antenna or sloping wire antenna; up to 350 km with symmetrical dipole antenna.